

INTERNATIONAL SEARCH REPORT

IB2004/002718

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L9/32 G01S5/14 G09F3/03

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L G01S G09F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
|------------|--|-----------------------|

| | | |
|-----|---|-----------------|
| X,P | WO 2004/034200 A (ULRICH HENRY) 22 April 2004 (2004-04-22) abstract paragraphs '0004! - '0019! paragraphs '0022!, '0023! paragraphs '0064! - '0068! paragraphs '0073! - '0095! figures 1,9-18 ----- -/-- | 56-61, 64-71 |
|-----|---|-----------------|

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

17 November 2004

Date of mailing of the international search report

26/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax (+31-70) 340-3016

Authorized officer

Bec, T

INTERNATIONAL SEARCH REPORT

IB2004/002718

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|---|-----------------------|
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | US 2003/011474 A1 (NG SING KING) 16 January 2003 (2003-01-16) abstract paragraph '0006! paragraphs '0027!, '0028! paragraph '0030! paragraph '0033! paragraph '0037! paragraph '0041! figures 1,4,5,5a,8 ----- | 1-71 |
| A | US 5 189 396 A (STOBBE ANATOLI) 23 February 1993 (1993-02-23) column 1, line 5 - line 11 column 1, line 52 - column 2, line 3 column 2, line 38 - column 3, line 2 column 7, line 1 - line 45 column 8, line 17 - line 27 figures 1,2,7 ----- | 1-71 |

INTERNATIONAL SEARCH REPORT

IB2004/002718

| Patent document cited in search report | | | Publication date | Patent family member(s) | | | Publication date |
|---|------------|----|---------------------|----------------------------|------------|----|---------------------|
| WO | 2004034200 | A | 22-04-2004 | WO | 2004034200 | A2 | 22-04-2004 |
| US | 2003011474 | A1 | 16-01-2003 | WO | 03007221 | A2 | 23-01-2003 |
| | | | | TW | 578108 | B | 01-03-2004 |
| | | | | US | 2003189491 | A1 | 09-10-2003 |
| US | 5189396 | A | 23-02-1993 | DE | 4019265 | C1 | 28-11-1991 |
| | | | | AT | 112084 | T | 15-10-1994 |
| | | | | DE | 59103007 | D1 | 27-10-1994 |
| | | | | EP | 0463294 | A1 | 02-01-1992 |
| | | | | JP | 2981016 | B2 | 22-11-1999 |
| | | | | JP | 4313194 | A | 05-11-1992 |